Annual Index

First Quarter 1–40 *Third Quarter 73–112*
Second Quarter 41–72 *Fourth Quarter 113–162*

SUBJECT INDEX

BEAMS
Ultimate Strength Considerations for Seismic Design of the Reduced Beam Section (Internal Plastic Hinge)—*Nestor Iwankiw* 3

BOLTS
Discussion—Closure: Comparative Effectiveness of Tightening Techniques for A490 1¼-in. Diameter Bolts—*Joan S. Dahl, Le-Wu Lu, John W. Fisher, and John Abruzzo* 38
A Summary of Changes and Derivation of LRFD Bolt Design Provisions—*Charles J. Carter, Raymond H. R. Tide, and Joseph A. Yura* 75
Discussion—Specifying Bolt Length for High-Strength Bolts—*Ronald L. Flucker, P.E.* 108
Closure—Specifying Bolt Length for High-Strength Bolts—*Charles J. Carter* 109

COLUMNS
Load and Resistance Factor Design and Analysis of Stepped Crane Columns in Industrial Buildings—*Robert A. MacCrimmon and D. J. Laurie Kennedy* 26

COMPOSITE DESIGN
Discussion—Strengthening of Existing Composite Beams Using LRFD Procedures—*Peter Kocsis, S.E., P.E.* 110
Critique—Strengthening of Existing Composite Beams Using LRFD Procedures—*Sompandh Wanant, P.E.* 157

COMPUTER SOLUTIONS
Calculation of the Plastic Section Modulus Using the Computer—*Dominique Bernard Bauer, P.E., Ph.D.* 104

CONNECTIONS
Design of Tension Circular Flange Joints in Tubular Structures—*Junjie Cao and Jeffrey A. Packer* 17
Truss Analogy for Steel Moment Connections—*Subhash C. Goel, Bozidar Stojadinovic, and Kyoung-Hyeog Lee* 43
The Behavior and Load-Carrying Capacity of Unstiffened Seated-Beam Connections—*W. H. Yang, W. F. Chen, and M. D. Bowman* 89
Discussion—The Behavior and Load-Carrying Capacity of Unstiffened Seated Beam Connections—*C. J. Carter, W. A. Thornton, and T. M. Murray* 151

EARTHQUAKE DESIGN
The Dogbone: Back to the Future—*André Plumier* 61

FRAMES
Optimization of Large Space Frame Steel Structures—*R. Soegiarso and H. Adeli* 54
The Restraint Girder System—Local Web Buckling Behavior and Design Considerations—*Neil Wexler, P.E.* 82
Steel Moment Frames with Ductile Girder Web Opening—*Subhash C. Goel, Sutat Leelataviwat, and Bozidar Stojadinovic* 115
Practical Application of Energy Methods to Structural Stability Problems—*R. Shankar Nair* 126

LOADS
Low-Rise Building Wind Load Provisions—Where Are We and Where Do We Need to Go?—*Gregory L. F. Chiu and Dale C. Perry* 135

WELDING
Rational Basis for Increased Fillet Weld Strength—*Nestor R. Iwankiw* 68
Errata—Rational Basis for Increased Fillet Weld Strength—*Nestor R. Iwankiw* 112

AUTHOR INDEX

John Abruzzo
See Joan S. Dahl. 38

H. Adeli
See R. Soegiarso 54

Dominique Bernard Bauer, P.E., Ph.D.
Calculation of the Plastic Section Modulus Using the Computer 104

M. D. Bowman
See W. H. Yang. 89

Junjie Cao and Jeffrey A. Packer
Design of Tension Circular Flange Joints in Tubular Structures 17

Charles J. Carter, Raymond H. R. Tide, and Joseph A. Yura
A Summary of Changes and Derivation of LRFD Bolt Design Provisions 75

Charles J. Carter
Closure—Specifying Bolt Length for High-Strength Bolts 109

C. J. Carter, W. A. Thornton, and T. M. Murray
Discussion—The Behavior and Load-Carrying Capacity of Unstiffened Seated Beam Connections 151

W. F. Chen
See W. H. Yang. 89

Gregory L. F. Chiu and Dale C. Perry
Low-Rise Building Wind Load Provisions—Where Are We and Where Do We Need to Go? 135

Joan S. Dahl, Le-Wu Lu, John W. Fisher, and John Abruzzo
Discussion—Closure: Comparative Effectiveness of Tightening Techniques for A490 1¼-in. Diameter Bolts 38

John W. Fisher
See Joan S. Dahl. 38

Ronald L. Flucker, P.E.
Discussion—Specifying Bolt Length for High-Strength Bolts 108

Subhash C. Goel, Bozidar Stojadinovic, and Kyoung-Hyeog Lee
Truss Analogy for Steel Moment Connections 43

Subhash C. Goel, Sutat Leelataviwat, and Bozidar Stojadinovic
Steel Moment Frames with Ductile Girder Web Opening 115

Nestor Iwankiw
Ultimate Strength Considerations for Seismic Design of the Reduced Beam Section (Internal Plastic Hinge) 3

Nestor R. Iwankiw
Rational Basis for Increased Fillet Weld Strength 68

Nestor R. Iwankiw
Errata—Rational Basis for Increased Fillet Weld Strength. 112

D. J. Laurie Kennedy
See Robert A. MacCrimmon 26

Peter Kocsis, S.E., P.E.
Discussion—Strengthening of Existing Composite Beams Using LRFD Procedures 110

Kyoung-Hyeog Lee
See Subhash C. Goel 43

Sutat Leelataviwat
See Subhash C. Goel 115

Le-Wu Lu
See Joan S. Dahl. 38

Robert A. MacCrimmon and D. J. Laurie Kennedy
Load and Resistance Factor Design and Analysis of Stepped Crane Columns in Industrial Buildings 26

T. M. Murray
See C. J. Carter. 151

R. Shankar Nair
Practical Application of Energy Methods to Structural Stability Problems. 126

Jeffrey A. Packer
See Junjie Cao 17

Dale C. Perry
See Gregory L. F. Chiu 135

André Plumier
The Dogbone: Back to the Future 61

R. Soegiarso and H. Adeli
Optimization of Large Space Frame Steel Structures 54

Bozidar Stojadinovic
See Subhash C. Goel 43

Bozidar Stojadinovic
See Subhash C. Goel 115

W. A. Thornton
See C. J. Carter. 151

Raymond H. R. Tide
See Charles J. Carter 75

Sompandh Wanant, P.E.
Critique—Strengthening of Existing Composite Beams Using LRFD Procedures 157

Neil Wexler, P.E.
The Restraint Girder System—Local Web Buckling Behavior and Design Considerations 82